



## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
[www.uspto.gov](http://www.uspto.gov)



Bib Data Sheet

CONFIRMATION NO. 4631

SERIAL NUMBER 10/687,713	FILING DATE 10/17/2003 RULE	CLASS 438	GROUP ART UNIT 1765	ATTORNEY DOCKET NO. N1085-00184 [TSMC2002-132]
-----------------------------	-----------------------------------	--------------	------------------------	---

## APPLICANTS

Kuei-Wu Huang, Hsin-Chu, TAIWAN;

Ai-Sen Liu, Hsinchu, TAIWAN;

Baw-Ching Perng, Hsinchu, TAIWAN; Ming-Ta Lei, Hsin Chu, TAIWAN;

Wen-Kai Wan, Hsin Chu, TAIWAN;

Cheng-Chung Lin, Taipei, TAIWAN;

Yih-Shung Lin, Taipei, TAIWAN;

Chia-Hui Lin, Residence Not Provided;

\*\* CONTINUING DATA \*\*\*\*\* *NINE* *UV*\*\* FOREIGN APPLICATIONS \*\*\*\*\* *NINE* *UV*

## IF REQUIRED, FOREIGN FILING LICENSE GRANTED

\*\* 01/31/2004

Foreign Priority claimed	<input type="checkbox"/> yes <input type="checkbox"/> no	STATE OR COUNTRY	SHEETS DRAWING	TOTAL CLAIMS	INDEPENDENT CLAIMS
35 USC 119 (a-d) conditions met	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> Met after Allowance	TAIWAN	3	38	2
Verified and Acknowledged	<i>Examiner's Signature</i> <i>UV</i>				

## ADDRESS

54657  
 DUANE MORRIS LLP  
 IP DEPARTMENT (TSMC)  
 30 SOUTH 17TH STREET  
 PHILADELPHIA, PA  
 19103-4196

## TITLE

Surface treated low-k dielectric as diffusion barrier for copper metallization

All Fees